

SYSTEM AND METHOD FOR ASSURED BUILT IN SELF REPAIR OF MEMORIES

ABSTRACT OF THE DISCLOSURE

5 An embedded memory device having improved BISR capabilities is provided. The embedded memory device includes an internal clock signal for use in accessing a memory array having access to redundant memory cells during normal operation, and a stress clock signal, wherein each pulse of the stress clock signal is of a shorter duration than each pulse of the internal clock signal. Further included are a built-in self-test circuit

10 that performs a built-in self-test using the stress clock signal, and a register that stores defective memory addresses detected by the built-in self-test circuit. Redundant control logic is also included that redirects memory access operations to the defective memory addresses to redundant memory cells.